



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/750,233

12/30/2003

William M. Hallidy

4233-104

8866

36412

7590

02/22/2005

DUCKOR SPRADLING METZGER
401 WEST A STREET, SUITE 2400
SAN DIEGO, CA 92101-7915

EXAMINER

HIRUY, ELIAS

ART UNIT

PAPER NUMBER

2837

DATE MAILED: 02/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/750,233

Applicant(s)

HALLIDY, WILLIAM M.

Examiner

Elias B. Hiruy

Art Unit

2837

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 12/30/2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 claims two damper windings that are not supported by the specification or by the drawings. Initially on line 5, the claim introduces this limitation by saying that the wound rotor is provided with a damper winding. Further down on line 9, the claim introduces another limitation that claims an additional damper winding on the wound rotor. Since the specification does not teach about two damper windings, the claim fails to describe a structure that is clearly defined and supported by the disclosure. Thus, this failure renders the claim indefinite and vague.

The examiner, in light of the specification, has presumed that the applicant intended to introduce only the first limitation since it is supported by the specification and drawings.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Godwin et al U.S. Patent 3,959,702.

Regarding claim 1, 8 and 9, Godwin et al teaches about an apparatus that meets the limitation of claim 1 and implements the methods taught by claim 8 and 9 in this application. Godwin et al apparatus has a synchronous motor 10 (Column 2, lines 14-20) (i.e. electrodynamic machine which inherently can be used as a generator to produce AC power as discussed by U.S. Rabinowitz et al Patent 5,325,002 column 1 lines 1-21) that comprises a stator armature with armature winding (Column 4, lines 3-6), wound rotor with a polyphase winding (Column 4, lines 6-9).

Further, Godwin shows a damper winding (Column 3, lines 36-45) on said wound rotor for permitting electric currents to be induced by changes in the magnetic field, said electric currents flowing in such a direction as to oppose changes in magnetic flux linkages (inherent since to an ordinary skill in the art the

Art Unit: 2837

function of the damper winding is the same as induction winding as described in column. 3, lines 5-17 of U.S. Patent no. 3,916,229 or column 1, lines 33-56).

Brushless exciter 13 provides direct current power to the polyphase rotor winding to run the machine in a synchronous mode of operation (Column 2, lines 2-25 and 34-37). In addition, a unidirectional device (fig. 1, labels 18-21 and 23) is provided to provide in order to short circuit the polyphase rotor winding to enable the machine to function in an induction mode of operation (Column 3, lines 10-20).

In addition, as claimed in claim 8 and 9, Godwin et al shows an apparatus, thyristor 17 (Column, 2 lines 62-68 and column 3, lines 1-20), that implements the connection of said polyphase winding with a source of direct current to cause the machine to function as a synchronous motor or generator when the rotor rotates relative to the stator armature.

Regarding claim 2 and 10, Godwin et al apparatus shows a dc source connected to field winding 14 (Col. 2. lines 21-25).

Regarding claim 3 and 11, Godwin et al also shows a diode 20 connected for providing the short circuit during the induction mode of operation and alternatively for blocking the short circuit during the synchronous mode of operation (Column 3, lines 1-20).

In like manner of claim 4 and 12, thyristor 19 is connected in parallel to diode 20 and allows current flow in the opposite direction during the induction mode of operation (see fig. 1 and column 3 lines 4-7).

Art Unit: 2837

As to claim 5 and 13, Godwin et al shows a control circuit 21 for rendering the unidirectional switching device conduction during the induction mode of operation (Column 2 lines 46-48).

Regarding claims 6 and 14, thyristor 19 is a silicon controlled rectifier.

Regarding claim 7 and 15, Godwin et al "exciter 13 has an armature winding 15, shown as three-phase winding [i.e. polyphase]" (Column 2, lines 25-27). In addition, "the armature winding 15 is connected to a rectifier bridge 16..." (Column 28-34) that is part of the exciter.

Thus, as shown above Godwin et al disclosure meets all the limitations taught in the above claims.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior arts that were reviewed in this office action and were found to be relevant are listed on the PTO-890 form attached.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias B. Hiruy whose telephone number is 571-272-6105. The examiner can normally be reached on 7AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2837

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EH

A handwritten signature in black ink, appearing to read 'DM', is positioned above the printed name and title.

DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800